

CLAIMS

add 2'

1. Improvement in the stabilisation to heat, shock and light of resins containing a halogen, by the addition of one or more metal compounds, which consists in incorporating also into the resin an organic additive having a mercaptan function, characterised in that this additive is an ester of an organic acid, in which the mercaptan function is connected to a carbon atom of the alcohol residue of the ester.

2. Improvement according to claim 1, which consists in incorporating the ester additive containing a mercaptan function in the alcohol residue in the resin stabilised with one or more metal compounds, characterised in that the proportion of the additive is from 0.1 to 5% and preferably 0.5 to 2% by weight of the resin.

3. Improvement according to claim 2, characterised in that the additive, which can be formed by several esters, is added to the resin simultaneously with the one or more metal compounds or separately.

4. Improvement according to any of claims 1 to 3, in which the metal compound is a derivative of tin, antimony, zinc, magnesium or other alkaline earth metal or an alkali metal.

5. Improvement according to any of claims 1 to 4, in which the resin includes an epoxide, a phosphite and/or an anti-oxidant.

6. Stabiliser additive for carrying out the improvement according to any of claims 1 to 5, characterised in that it is of the type $\text{RCOO}-\text{R}'\text{SH}$, where R is an alkyl or alkenyl containing at least two carbon atoms and preferably 8 to 18C, or an aryl or aralkyl, the R group possibly carrying a second carboxylic group or a second group $-\text{COOR}'\text{SH}$, while R' is a C_1 to C_{18} alkylene which can carry one or more $-\text{OH}$.

7. Additive according to claim 6, characterised in that RCOO- is a fatty acid residue, in particular caprylic, perlargonic, capric, undecanoic, lauric, myristic, palmitic or stearic.

8. Additive according to claim 6, characterised in that the group RCOO- derives from an aliphatic diacid, in particular succinic, adipic or dioleic or an aromatic diacid, particularly phthalic.

9. Additive according to any of claims 6 to 8, characterised in that the group -R'SH is derived from a C₂ to C₆ mercapto alkanol, in particular 1-mercaptop-ethanol-2, 1-mercaptop-propanol-3, 1-mercaptop-2-hydroxy-propanol-3 or 1-mercaptop-butanol-4.

10. Additive according to claim 9, characterised in that it comprises calcium stearate and mercapto-ethyl stearate.

11. Additive according to claim 9, characterised in that it comprises an organic tin compound and mercapto-ethyl stearate.

12. Additive according to claim 9, characterised in that it comprises antimony tri-mercaptide and mercapto-ethyl stearate.

13. A plastic mass of polyvinyl chloride or of modified polyvinyl chloride, stabilised by the process according to any of claims 1 to 5.